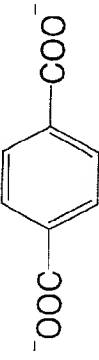
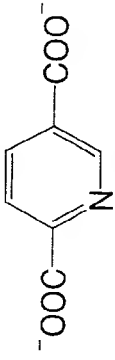
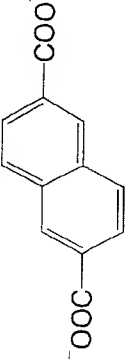

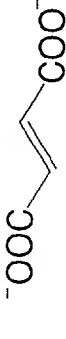

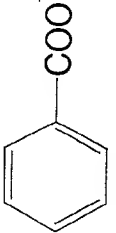


# Appendix A

## Table 1

(1 page)

Table 1

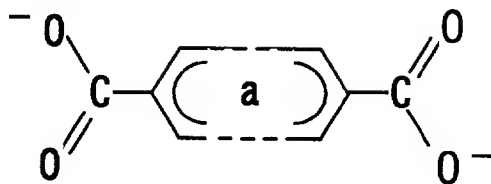
	classification	substituent	structural formula
No.1	general formula (4)	$a \rightarrow$ paraphenylene group	
No.2	general formula (4)	$a \rightarrow$ 2, 5 - pyridylene group	
No.3	general formula (4)	$a \rightarrow$ 2, 6 - naphthylene group	
No.4	general formula (5)	$b \rightarrow$ 1, 4 - cyclohexylene group	
No.5	general formula (6)	$n = 1$	
No.6	general formula (6)	$n = 2$	
No.7	general formula (7)	$c \rightarrow$ phenyl	

# Appendix B

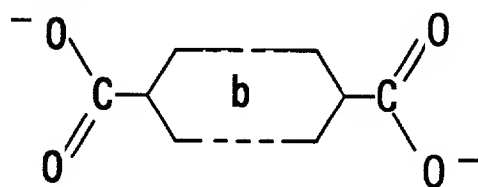
## Chemical Formulas 1-20

(9 pages)

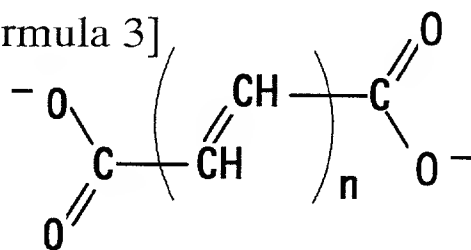
[Chemical Formula 1]



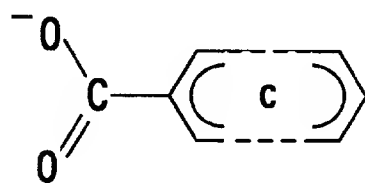
[Chemical Formula 2]



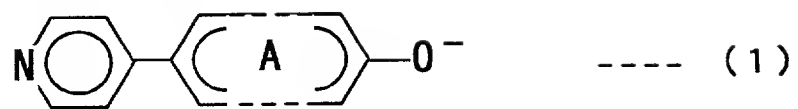
[Chemical Formula 3]



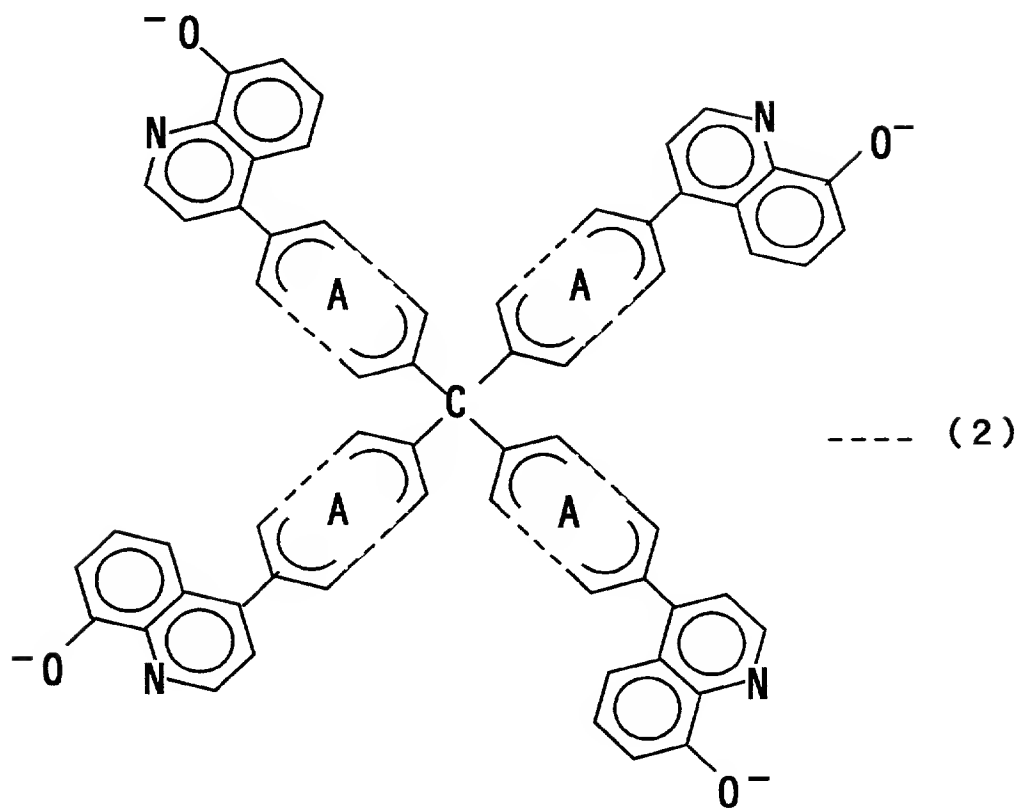
[Chemical Formula 4]



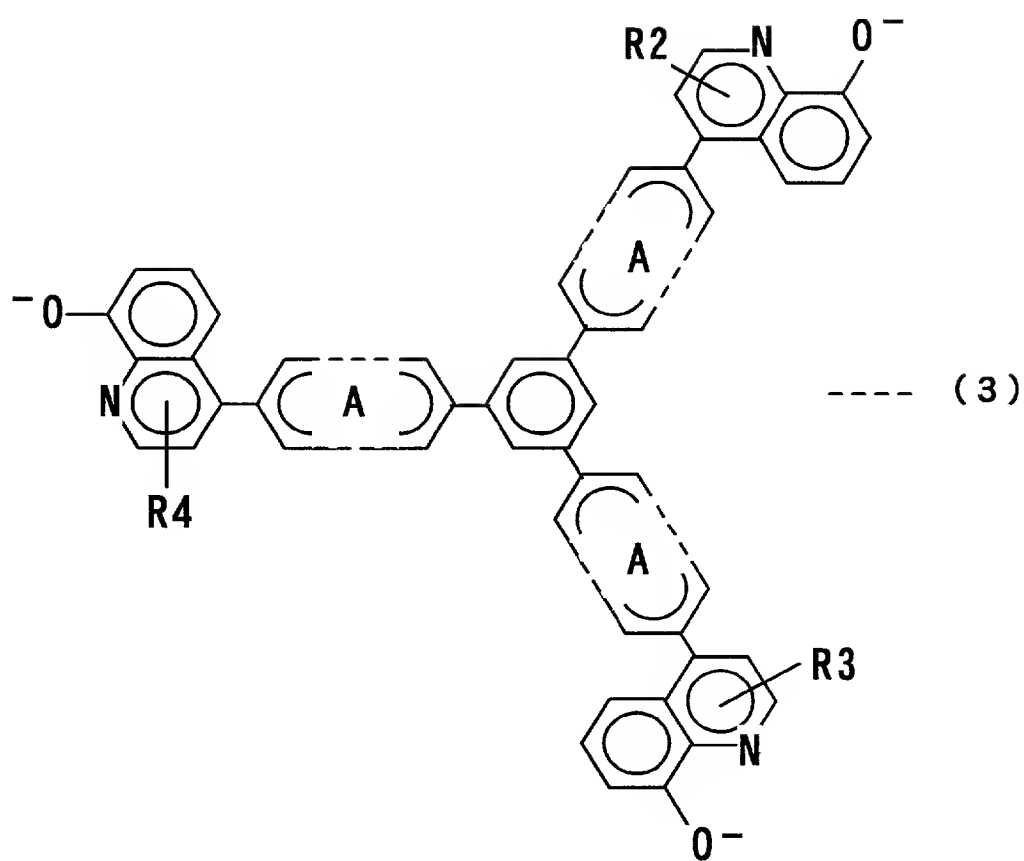
[Chemical Formula 5]



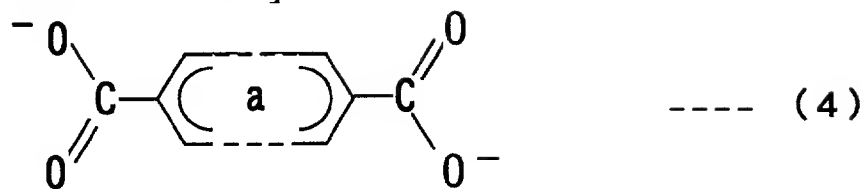
[Chemical Formula 6]



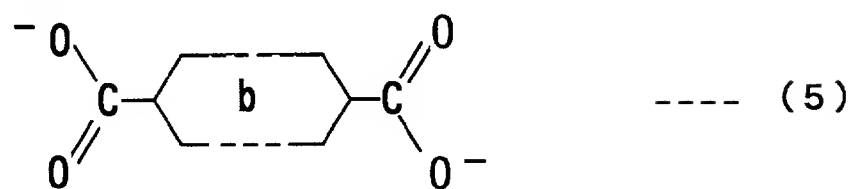
[Chemical Formula 7]



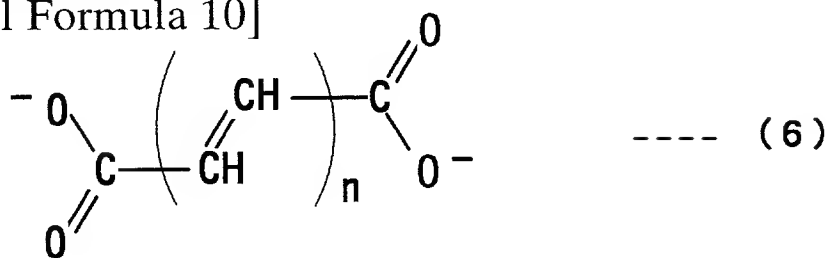
[Chemical Formula 8]



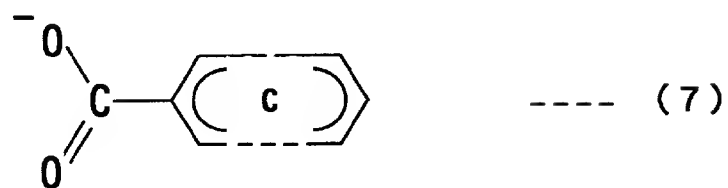
[Chemical Formula 9]



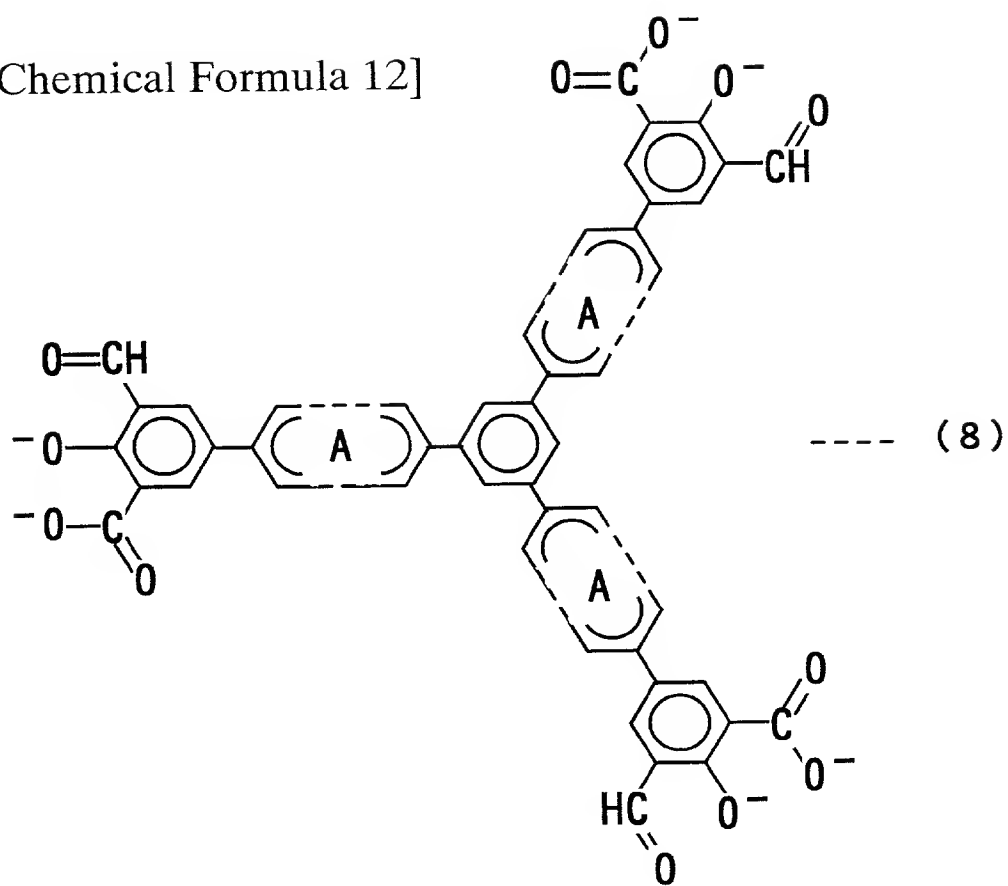
[Chemical Formula 10]



[Chemical Formula 11]

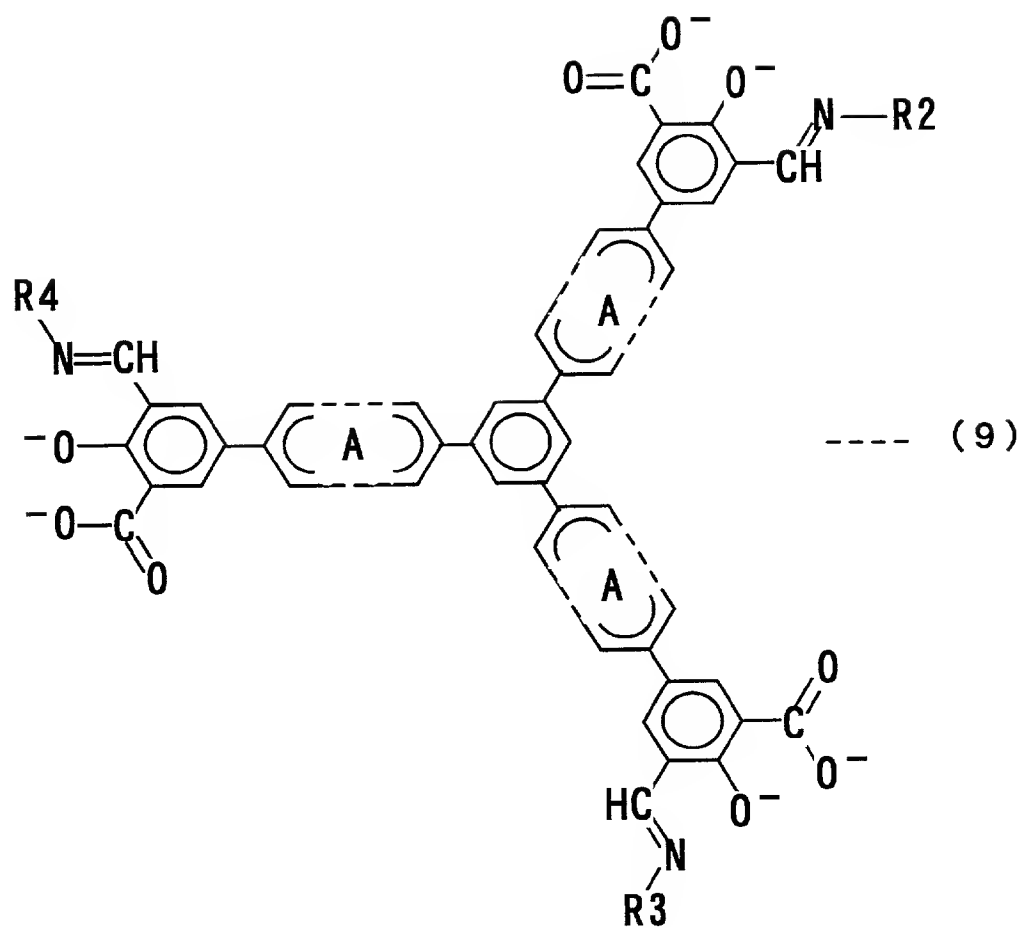


[Chemical Formula 12]

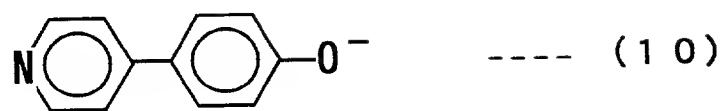




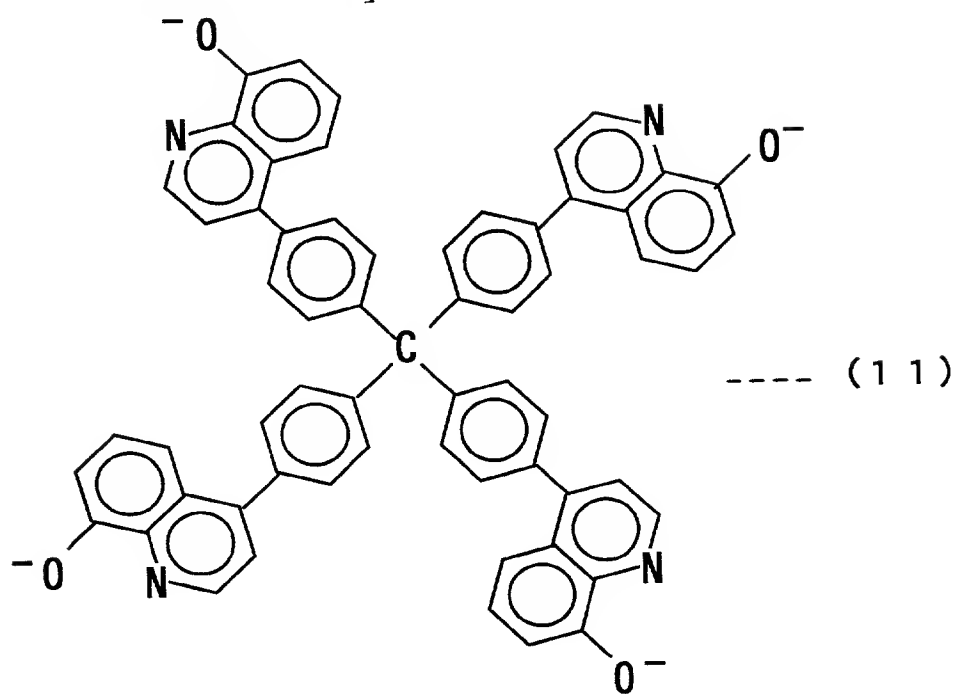
[Chemical Formula 13]



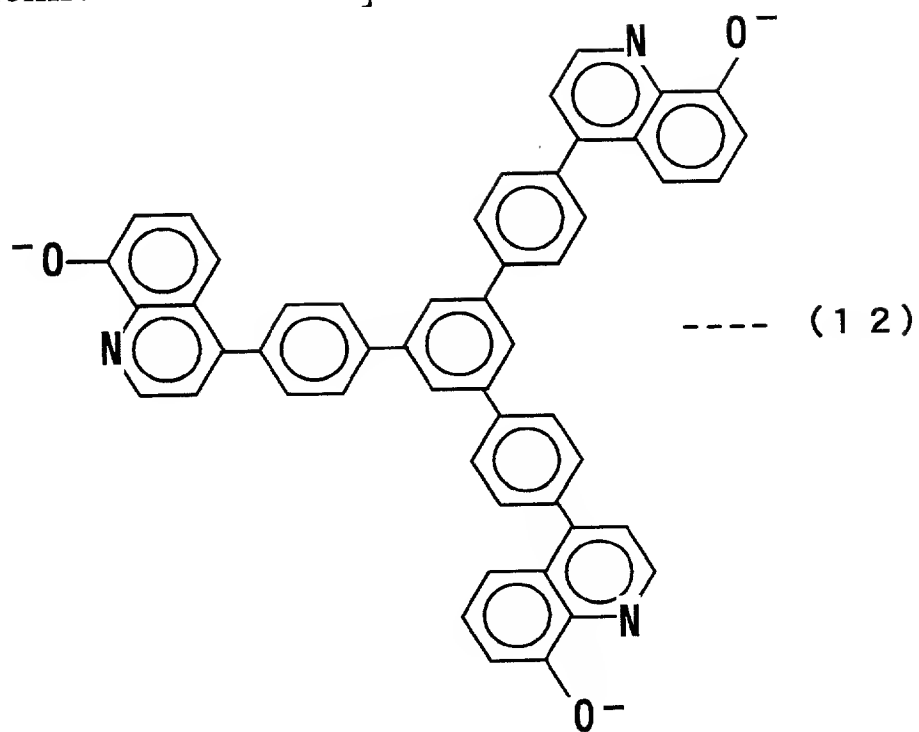
[Chemical Formula 14]



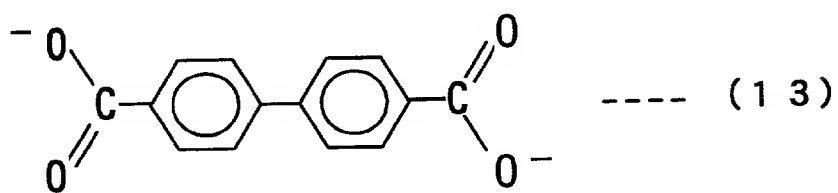
[Chemical Formula 15]



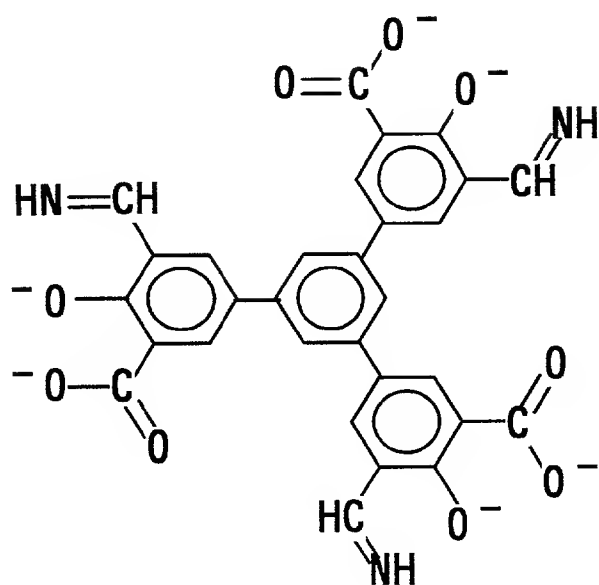
[Chemical Formula 16]



[Chemical Formula 17]

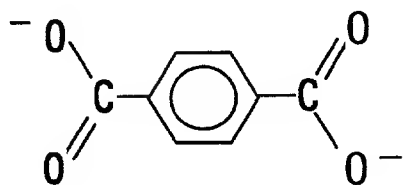


[Chemical Formula 18]



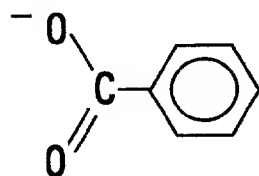
----- ( 1 4 )

[Chemical Formula 19]



----- ( 1 5 )

[Chemical Formula 20]



----- ( 1 6 )